

## SPEC SHEET

COLLABORATE™ PHD Camera, 910-401-196

CLEARONE DOCUMENT DOC-0059-001  
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## COLLABORATE PHD PTZ CAMERA SPECIFICATION SHEET

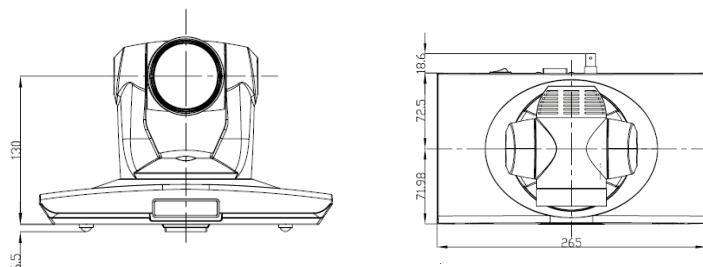
This Specification Sheet details the characteristics of the ClearOne COLLABORATE PHD PTZ video conference camera model 910-401-196.

### Key Features

- **Real Full HD High Quality Image** – Employs a 1/2.5 type HD COMS achieving 1920 x 1080 super high quality video. Frame rate up to 60/50 frame/sec., providing super smooth video, makes full high definition come true.
- **Low Noise and High SNR** – Applies new generation low noise sensor, with the co-strength of 2D and 3D noise reduction algorithms, decreasing image noise effectively and also improving SNR.
- **Lifelike Video Image** – Adopts the latest CMOS sensor which is outstanding by its WDR function, with the co-effect of unique Iridix HDR exposure dynamic control algorithms, delivering intricately detailed and vivid images, especially under circumstance with strong light and shade contrast.
- **14X Optical Zoom** – Supports up to 14X optical zoom. High performance lens with fast and stable auto focus capability.
- **Wide-Range, Quiet and Quick Pan/Tilt Rotation** – Using step driving motor mechanisms, the camera is extremely quiet as it smoothly rotates to position quickly and accurately providing a wide shooting range.
- **Multi-Format Full High Definition Video Outputs** – Supports 1080p60/50/30/25, 1080i60/50, 720p60/50/30/25 format HD video for meeting different application needs.
- **RS-232C Remote Control** – All camera settings and pan/tilt/zoom control functions can be performed remotely at high communication speeds via the RS-232C interface (VISCA™ protocol). By using the RS-232 cascading interface, two or more cameras can be connected synchronously.
- **Multi-Address Setting Function** – Camera address can be set with dial switches at the bottom of the camera.
- **10 Preset Positions** – Up to 10 preset values for pan/tilt/zoom. The camera can retain these presets even when switched off.
- **Multi-Function Remote** – Users are able to control the pan/tilt/zoom and other settings of camera via easy to operate remote controller. The camera also can be controlled by the IR remote of the terminal equipment by converting the received infrared remote control signal to COM signal and then transmitting. In that way, user terminals can be setting at background.
- **On Screen Display (OSD) Menu** – OSD menu can be easily controlled via remote control or COM command.
- **Optional Upside Down Installation** – Supports upside down installation. Also the installation mode can be changed via remote control or OSD menu setting or COM demand.



### Dimensions



## Technical Parameters

Camera	
Sensor	1/4 inch high quality EXVIEW HAD CCD sensor
Pixel	Dynamic image: 16:9 2,070,000 effective pixel
Video Signal	1080P60/50/30/25, 1080I/60/50, 720P60/50/30/25
Zoom	14x optical zoom, f=4.7---65.8mm
View Angle	3.8° (distance) - 62° (close)
Minimum LUX	1.8 LUX
White Balance	Auto/Sunlight/Cloudy/Darkness/Fluorescence
Focus	Auto/Manual
Iris	Auto/Manual
Electronic Shutter	Auto/Manual
BLC	Open/Close
S/N Ratio	>50dB

Input/Output Interface	
HD interfaces	DVI
Control interfaces	8 pin mini DIN
Control Signal Format	Start bit: 1; Data bit: 8; Stop bit: 1; Baud Rate: 9600bps
Power supply Interface	HEC3800 power jack

General Specifications		
Mechanism	Rotation	Tilt rotation: -300°+90°
		Pan rotation: ±1000
	Manual Control Speed	Pan: 0.5-200°/sec.
		Tilt: 0.5-40°/sec.
	Preset Control Speed	Pan: 200°/sec.; tilt:40°/sec.
		Tilt: 40°/sec.
Color	Black/Silver	
Power Supply Adapter	110VAC - 220VAC to 12VDC/2A	
Input Voltage	12VDC (10.5-14VDC)	
Power Consumption	18W (max)	
Store temperature	-10°C to +60°C	
Working Temperature	0°C to +45°C	
Dimensions (W x H x W)	265mm x 144mm x 171mm	
Weight	2 KG	
Application	For indoor use	